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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Dated: December 22, 2004

GARTH F. SCHMELING, JANINE L.
HELMS and DANIEL J. DYER

HP Docket No. 10007050-1

Serial No. : 09/875,331

Examiner M. Delgado

Filed : June 5, 2001

Group Art Unit 2144

For : DEVICE MANAGEMENT SYSTEM AND METHOD

Commissioner for Patents
P. O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

DECLARATION UNDER 37 C.F.R. § 1.131

We declare as follows:

1. We are the named inventors of U.S. Patent Application Serial No. 09/875,331, filed June 5, 2001, and entitled "Device Management System and Method."

2. We conceived our invention in this country earlier than September 13, 2000, which is the priority date of United States Application Number 09/847,811, from which United States Patent Application Publication Number US 2002/0065872 resulted, as demonstrated by HP Lab Notebook #1146, pages 54-58, a copy of which is attached to this declaration and labeled Exhibit 1.

3. Exhibit 1 demonstrates that before September 13, 2000 we conceived of a device management system for use with a computer network, the system comprising a server configured to execute a management application, the server being configured to connect to the network, and a device configured to announce its

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KH Docket No. HPCB 315

presence to the management application on the server upon connection of the device to the network.

4. Exhibit 1 also demonstrates that before September 13, 2000 we conceived of a device management system for use with a computer network, the system comprising a management server configured to execute a management application, the server being configured to connect to the network, and a device including an embedded application server configured to serve embedded web content, wherein the embedded application server of the device is configured to contact the management application of the management server and communicate the embedded web content to the management application automatically upon connection of the device to the network.

5. Exhibit 1 also demonstrates that before September 13, 2000 we conceived of a device management system for use with a computer network, the system comprising a management server configured to execute a management application, the management server being configured to connect to the network, and a device configured to connect to the network and communicate with the management application, the device including an embedded server and at least one agent/codelet pair having an agent and a codelet, wherein the embedded server is configured to automatically upload the agent to the management application of the management server, and wherein the management application is configured to install the agent at the management server, and wherein, after installation of the agent at the management server, the agent and the codelet are configured to communicate with each other to achieve a predetermined functionality.

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6. Exhibit 1 also demonstrates that before September 13, 2000 we conceived of a method for managing one or more devices connected to a computer network, the method comprising in response to connection of a device to the network, sending a message from an embedded server on the device to a management application on a management server via a well-known address, thereby announcing the presence of the device on the network.

7. Exhibit 1 also demonstrates that before September 13, 2000 we conceived of a method for managing devices on a computer network, the method comprising connecting a device to a network, the device including an embedded server and at least one agent/codelet pair having an agent and a codelet, wherein the embedded server is configured to automatically upload the agent of the agent/codelet pair to a management application of a management server connected to the network, sending the agent from the device to the management server, installing the agent at the management server, communicating between the agent installed at the management server and the codelet on the device.

8. Exhibit 1 also demonstrates that before September 13, 2000 we conceived of a program storage apparatus readable by a machine, the storage apparatus tangibly embodying a program of instructions executable by the machine to perform a method for use in utilizing a print service, the method comprising in response to connection of a device to a network, sending a message from an embedded server on the device to a management application on a management server via a well-known address, thereby announcing the presence of the device on the network.

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9. From before September 13, 2000 until June 5, 2001, the filing date of Application Serial No. 09/847,811, we diligently worked toward reducing our invention to practice.

10. All acts set forth herein and/or relied upon for the purpose of establishing invention prior to September 13, 2000 were carried out in the United States.

11. We declare that all statements made herein of our knowledge are true and all statements made on information and belief are believed to be true. These statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under § 1001 of Title 18 of the United States Code. We understand that such willful false statements may jeopardize the validity of the application or any patent issuing therefrom.

Date: January 4, 2005

Garth F. Schmeling
Garth F. Schmeling

Date: January 4, 2005

Janine L. Helms
Janine L. Helms

Date: January 4, 2005

Daniel J. Dyer
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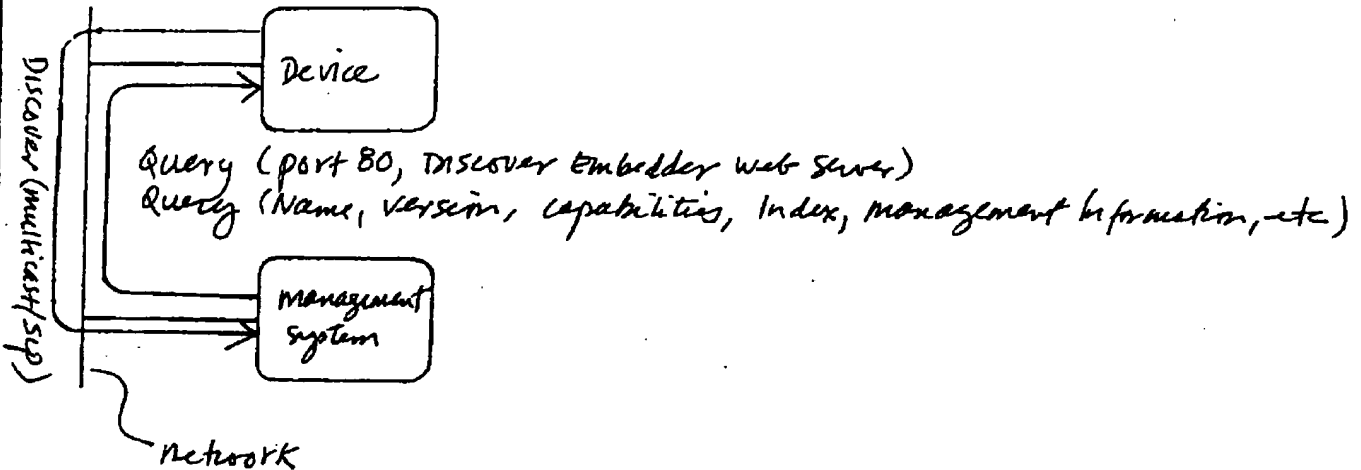
DECLARATION UNDER 37 C.F.R. § 1.131
Serial No. 09/875,331
HP Docket No. 10007050-1
KH Docket No. HPCB 315

TITLE Dynamic World Wide Web Functionality Management Project No. 22
Book No. 114

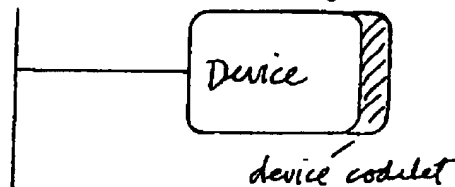
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1. Dynamic Discovery of Devices and WWW Content



2. New Functionality Through "Matched Pair" Codelets



"Matched Pair" allows new functionality to be added to the device and to be supported by the Management System without requiring extensive re-installs to both.

"Device codelet" contains device-specific embedded web content. It retains the ability to respond to queries. The query is addressed to a specific URL and the device codelet responds.

"Management codelet" contains device-specific code that is added to the management system. It knows how to query for device-specific embedded web content. It queries using a specific URL and the device codelet responds.

Exhibit 1

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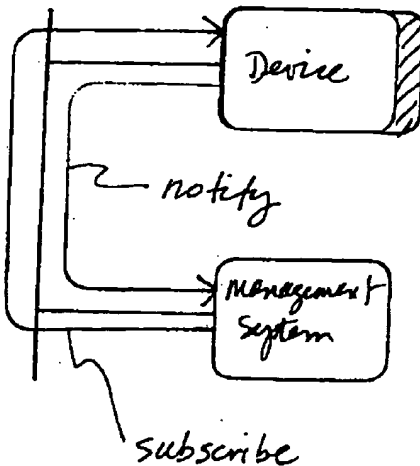
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3. Subscribe / Notify for Embedded Web Changes

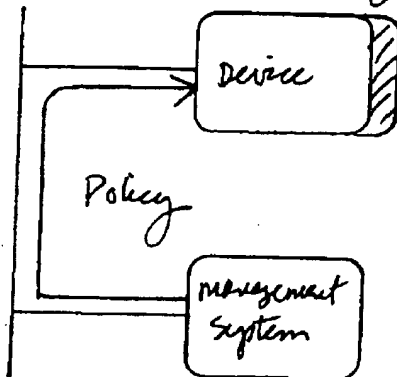


The management system may subscribe to receive notification of changes to embedded web content.

The device sends out notification of changes to subscribers.

This allows changes/upgrades to device codelets independent of the management system but allows the management system to be notified and to stay in sync.

4. Device Codelet Policy on Addition / Deletion / Removal / Re-Install



The management system may set a policy in each with regard to device codelet addition/deletion/removal/re-install. A device codelet may be removed from active memory because of device activity and limitations on device memory.

The policy may include rules on how device codelets run and the order of execution. An example of "how a device codelet runs" is "run once and exit." This type of run rule could be used for a diagnostics codelet that needs to run to diagnose a problem and then post results to a diagnostics results program.

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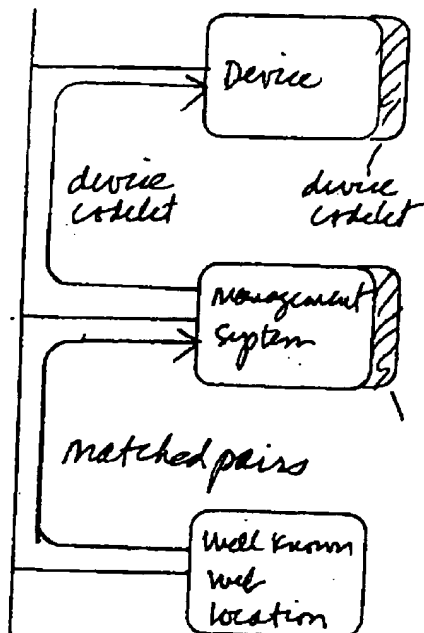
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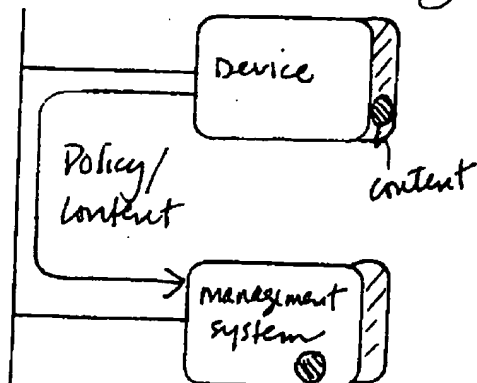
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5. Add/upgrade/Delete new Functionality Codelets.



The management system may query a well-known web location, for example, www.hp.com/ ~~device~~ codelets/, to find new versions of device and management codelets that correspond to the devices on the network. These matched pairs may be downloaded and installed on devices on the network. The management codelet is installed into the management system.

6. Device Cache Policy for Embedded Web Content



The device codelet may have a "cache policy". It determines how long world wide web content may be cached by the management system. In this case the management system is acting as a proxy for the device codelet.

The cache policy may include all www content items or may refer to individual content items.

Device content that has been cached by the management system.

The purpose is to eliminate "stale" content at the proxy.

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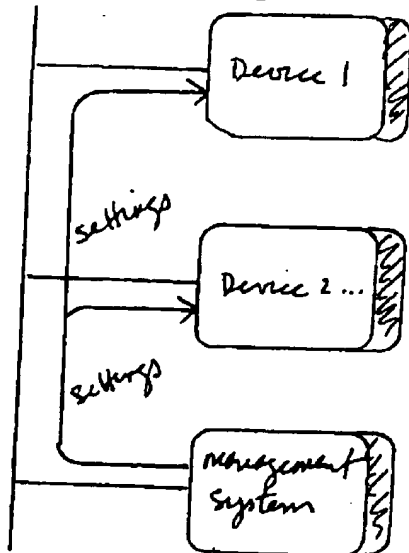
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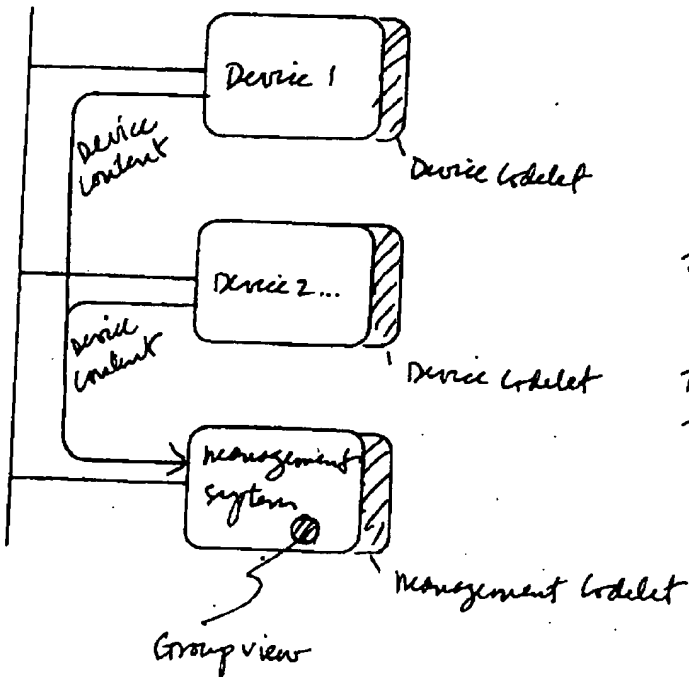
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7. Batch config of Embedded web content



- Management system configures multiple devices.
- Batch configuration of embedded web content items.
- New settings recorded in XML and passed to device codelets.
- Other formats could be used.

8 Transformation Rules



The management system utilized "transformation rules" to convert device content from "device view" to "group view".

The device codelet presents the device view of the device.

The management system consolidates and transforms device-specific views to group view.

Example transform rules are:

- Consolidation (based on status)
- Exception (< 16 MB of RAM)
- Exclusion (no JVM), etc.

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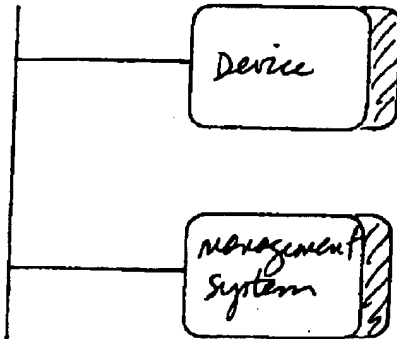
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9. Standard Format to Describe Embedded Web Content and UI

- Standard format to describe WWW Content
- Uses XML to indicate Content
- It supports query for strings by language
- It supports query for possible settings [ON, OFF]
- It supports description of well known UI constructs (edit box, list box, ...)
- etc.

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